

RF Emissions Analysis:

The applicant proposes to use an authorized and registered tower #1011395. No change is proposed to the height of this tower. There are no other low power TV translator antennas on this tower.

K50IO will transmit using an effective radiated power of 0.35 kW from an antenna height above ground of 101.5 meters. The applicant proposes to use the Scala SL-8 27. This UHF antenna has relatively high horizontal gain of 11.4 dB. Using the OET 65 formulas, and standard vertical elevation field toward the nadir for this type of antenna of 0.2, the facility will produce 0.3673mW/cm^2 at head height which is below the maximum for an uncontrolled area. Minimum safe distance is 16.37m.

The applicant has an agreement with the other users of this tower to reduce power or terminate transmissions to protect workers on or near the tower. The site is posted with all appropriate warning signs.